

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1587660

Luminaire Tested: 22CZSP-SB-37HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-37HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

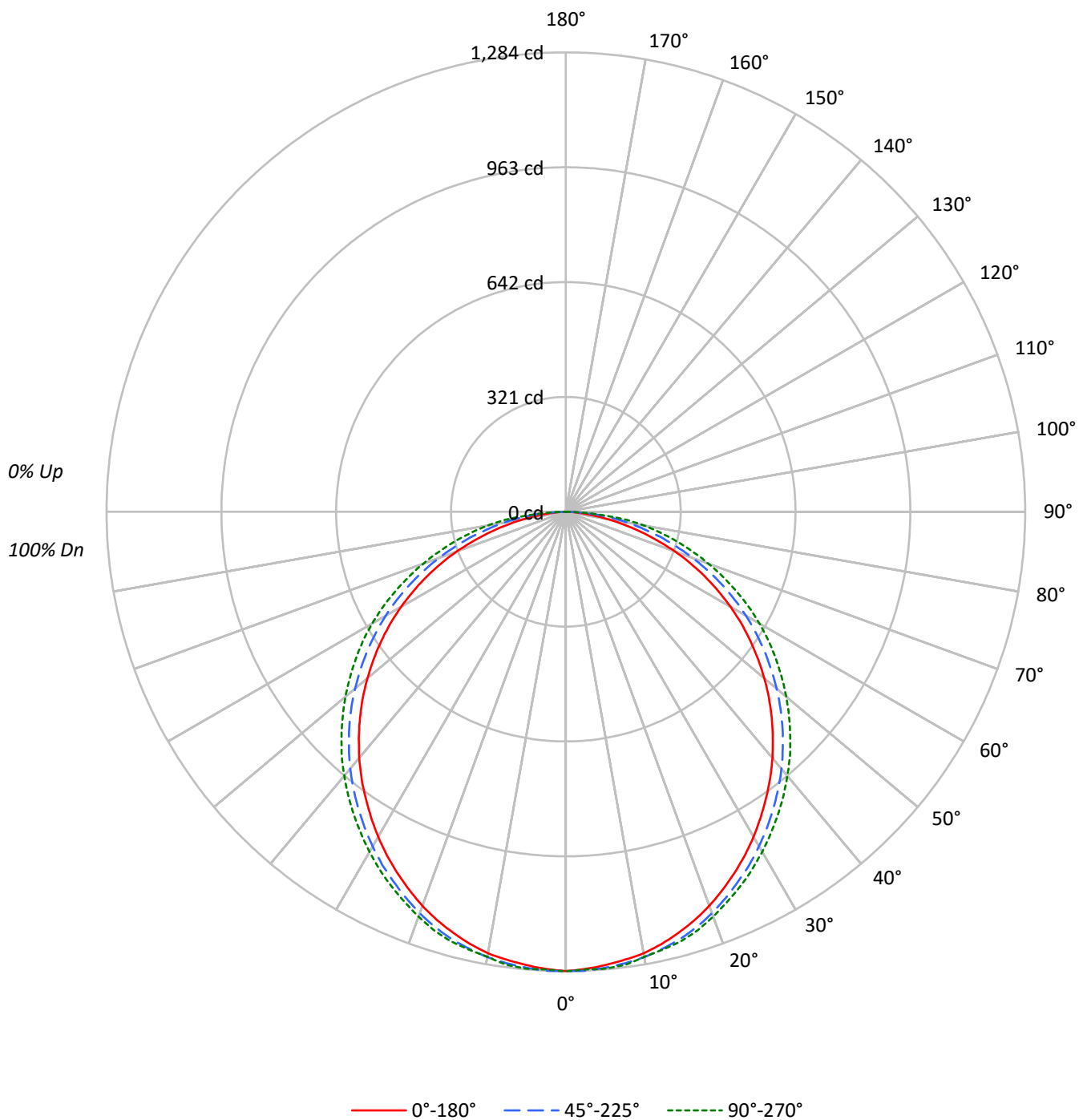
Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1587660

CATALOG NUMBER: 22CZSP-SB-37HE-L850-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587660

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4021	4021	4021
5°	3998	4021	4028
10°	3985	4019	4016
15°	3949	4006	4030
20°	3906	3979	4013
25°	3850	3939	3989
30°	3794	3905	3969
35°	3732	3867	3950
40°	3672	3833	3938
45°	3604	3793	3928
50°	3526	3746	3918
55°	3439	3698	3913
60°	3331	3643	3915
65°	3179	3566	3894
70°	2972	3457	3884
75°	2634	3325	3898
80°	2144	3159	4014
85°	1387	2917	3463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4066 cd/sqm

TEST NUMBER: P1587660

CATALOG NUMBER: 22CZSP-SB-37HE-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.3
10°-20°	348.0	9.3
20°-30°	524.6	14.0
30°-40°	631.2	16.9
40°-50°	658.4	17.6
50°-60°	603.5	16.2
60°-70°	473.9	12.7
70°-80°	288.4	7.7
80°-90°	85.3	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	994.1	26.6
0°-40°	1625.3	43.5
0°-60°	2887.3	77.3
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1272	1280	1279	1278	1282	121
15°	1218	1230	1236	1237	1243	344
25°	1114	1130	1140	1147	1155	514
35°	976	992	1012	1026	1033	611
45°	814	831	856	877	887	628
55°	630	646	677	705	717	563
65°	429	445	481	513	526	424
75°	218	238	275	308	322	231
85°	39	55	81	91	96	50
90°	0	0	0	0	0	

TEST NUMBER: P1587660

CATALOG NUMBER: 22CZSP-SB-37HE-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.0	1284.0	1284.0	1284.0	1284.0
2.5°	1279.1	1285.6	1284.0	1278.3	1280.7
5°	1271.9	1279.9	1279.1	1277.5	1281.6
7.5°	1263.1	1271.9	1272.7	1272.7	1277.5
10°	1253.4	1262.3	1263.9	1261.5	1263.1
12.5°	1237.4	1247.8	1251.0	1251.0	1253.4
15°	1218.1	1230.1	1235.8	1237.4	1243.0
17.5°	1197.2	1210.0	1217.3	1221.3	1226.1
20°	1172.3	1185.9	1194.0	1198.8	1204.4
22.5°	1144.2	1159.4	1168.3	1173.1	1179.5
25°	1114.4	1129.7	1140.1	1147.4	1154.6
27.5°	1083.1	1097.6	1112.0	1120.9	1127.3
30°	1049.3	1064.6	1079.9	1091.1	1097.6
32.5°	1013.2	1029.3	1046.9	1059.0	1066.2
35°	976.2	991.5	1011.6	1026.0	1033.3
37.5°	938.5	954.5	975.4	990.7	999.5
40°	898.3	915.2	937.7	954.5	963.4
42.5°	856.5	872.6	897.5	916.8	927.2
45°	813.9	830.8	856.5	876.6	887.0
47.5°	769.7	785.8	813.9	837.2	846.1
50°	723.9	739.2	768.9	793.8	804.3
52.5°	677.3	693.4	723.1	749.6	760.9
55°	629.9	646.0	677.3	704.7	716.7
57.5°	581.7	597.8	629.9	658.1	672.5
60°	531.9	548.0	581.7	610.6	625.1
62.5°	480.5	497.4	531.9	561.6	576.9
65°	429.1	445.1	481.3	513.4	525.5
67.5°	377.6	393.7	429.1	461.2	475.7
70°	324.6	343.1	377.6	411.4	424.2
72.5°	269.2	290.1	324.6	360.0	372.8
75°	217.7	237.8	274.8	307.7	322.2
77.5°	167.1	188.8	223.4	257.1	271.6
80°	118.9	139.8	175.2	207.3	222.6
82.5°	75.5	94.0	129.4	158.3	169.5
85°	38.6	54.6	81.2	90.8	96.4
87.5°	11.2	19.3	28.9	36.2	40.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587660

CATALOG NUMBER: 22CZSP-SB-37HE-L850-S

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.33	17.99	16.70	18.31	18.62	17.07	18.73	17.43	19.04	19.36
	3H	18.10	19.61	18.48	19.93	20.29	19.15	20.65	19.52	20.98	21.34
	4H	18.72	20.14	19.12	20.49	20.86	20.01	21.43	20.41	21.78	22.16
	6H	19.13	20.45	19.54	20.81	21.20	20.76	22.08	21.17	22.44	22.83
	8H	19.23	20.49	19.66	20.88	21.28	21.05	22.31	21.48	22.70	23.10
	12H	19.28	20.49	19.71	20.87	21.30	21.25	22.45	21.68	22.84	23.26
4H	2H	17.10	18.52	17.50	18.87	19.24	17.67	19.09	18.07	19.44	19.82
	3H	19.09	20.29	19.50	20.69	21.08	19.99	21.18	20.40	21.58	21.98
	4H	19.84	20.92	20.27	21.33	21.77	21.01	22.09	21.44	22.50	22.94
	6H	20.36	21.31	20.82	21.75	22.21	21.91	22.86	22.36	23.30	23.75
	8H	20.51	21.40	20.97	21.84	22.30	22.28	23.17	22.74	23.61	24.07
	12H	20.59	21.39	21.07	21.86	22.33	22.53	23.33	23.01	23.81	24.28
8H	4H	20.28	21.17	20.74	21.61	22.08	21.30	22.19	21.76	22.63	23.10
	6H	20.94	21.69	21.44	22.17	22.65	22.36	23.10	22.85	23.59	24.06
	8H	21.15	21.82	21.66	22.32	22.81	22.83	23.50	23.34	24.00	24.49
	12H	21.29	21.88	21.80	22.37	22.93	23.18	23.77	23.69	24.26	24.82
12H	4H	20.36	21.16	20.84	21.64	22.11	21.33	22.13	21.81	22.60	23.07
	6H	21.07	21.74	21.58	22.24	22.73	22.41	23.08	22.92	23.58	24.07
	8H	21.35	21.94	21.85	22.42	22.98	22.95	23.54	23.45	24.03	24.59

END OF REPORT